



Systematic Review and Meta-analysis

Two-day course: 10th – 11th September 2015

Trinity Centre for Health Sciences, St. James's Hospital

This course will provide an introduction to the methods of systematic review and meta-analysis in healthcare. The course is suitable for students, researchers, clinicians, healthcare and pharmaceutical company professionals who intend to conduct their own systematic review or wish to interpret or assess systematic reviews. The course is delivered by staff of the National Centre for Pharmacoeconomics, Trinity College Dublin and the University of Limerick and comprises short presentations, practicals, group exercises and discussion.

Course Programme

Day 1

Motivation for systematic review in healthcare	Presentation	09.00 – 09.15
Formulating a research question	Presentation	09.15– 09.45
Defining eligibility criteria	Presentation	09.45 – 10.30
<i>Refreshments</i>		10.30 – 10.45
Getting started for your systematic review	Practical	10.45 – 11.30
Sources of evidence and search strategy	Presentation	11.30 – 12.30
<i>Lunch</i>		12.30 – 13.30
Data types and data preparation	Presentation	13.30 – 14.15
Study selection and data extraction	Practical	14.15 – 15.00
<i>Refreshments</i>		15.00 – 15.15
Solution to Practical	Discussion	15.15 – 16.00
Sources of bias and quality assessment	Presentation	16.00 – 16.45

Day 2

Recap: systematic review so far	Presentation	09.00 – 09.15
Quality assessment	Practical	09.15 – 10.00
Introduction to meta-analysis	Presentation	10.00 – 10.45
Meta-analysis	Practical	10.45 – 11.30
<i>Refreshments</i>		11.30 – 11.45
Heterogeneity	Presentation	11.45 – 12.15
Sensitivity analyses	Presentation	12.15 – 12.45
<i>Lunch</i>		12.45 – 13.45
Reporting and presentation	Presentation	13.45 – 14.30
Summarising the systematic review	Practical	14.30 – 15.00
Group presentations	Practical	15.00 – 16.00
Extension: network meta-analysis	Presentation	16.00 – 16.15
Round up / Questions	Discussion	16.15 – 16.30

Price: €350

Booking information contact: email barrysec@stjames.ie or call +353(0)14103427

Course Faculty

Dr. Roisin Adams, MPharm, MSc., PhD

Dr. Roisin Adams is Deputy Head of the National Centre for Pharmacoeconomics. She was awarded a PhD for her work on the cost effectiveness of biologic agents in inflammatory rheumatological disease. She is a graduate of the Robert Gordon University, Aberdeen and trained in Ninewells Hospital, Dundee. In 2003 she was appointed Chief II pharmacist in St. James's Hospital where she specialised in palliative care and rheumatology. Roisin completed her MSc. in Clinical Pharmacy at Queens University, Belfast. She leads the review group for pharmaceutical technologies at the NCPE. Her areas of interests include methods for preference elicitation and methodology of indirect comparisons for evidence synthesis.

Email: radams@stjames.ie

Dr. Emer Fogarty BSc Pharm, Dip (Stat), MSc, PhD

Dr. Emer Fogarty is a Senior pharmacist and a member of the economic review group at the National Centre for Pharmacoeconomics. She graduated from Trinity College, Dublin in 2004 and completed an MSc in Clinical Pharmacy with University College, Cork. Formerly employed as a clinical pharmacist in St. James's Hospital, Emer worked in numerous clinical pharmacy specialities including general medicine, oncology, and infectious diseases. She completed a PhD examining the cost-effectiveness of treatments for multiple sclerosis, and her research interests are comparative effectiveness and health economic modelling.

Email: efogarty@stjames.ie

Dr. Susanne Schmitz Dipl.Math, PhD

Dr. Susanne Schmitz is an Assistant Professor in the department of Pharmacology and Therapeutics in Trinity College Dublin. She holds a PhD from the department of Statistics, Trinity College Dublin, for her research on Bayesian methods for evidence synthesis and decision making in Health Technology Assessments. Susanne graduated in Mathematics from RWTH Aachen University in Germany. Her research interests are Bayesian biostatistics, evidence synthesis, meta-analytical methods such as mixed treatment comparison models as well as the role of uncertainty in decision theory and multiple criteria decision analysis. She has worked on applications related to rheumatoid arthritis, multiple sclerosis, hepatitis C and rotavirus modelling.

Email: schmitzs@tcd.ie

Prof. Cathal Walsh MA, PhD

Cathal Walsh holds the Chair of Statistics at the University of Limerick, and is a HRB Research Leader in Health Decision Science. He is an advisor to the National Centre for Pharmacoeconomics on statistical methodology for Health Technology Assessment and holds an adjunct professorship at Trinity College Dublin. Specific areas in which he has used his expertise are in the modelling of heterogeneity using latent variable models and in combining evidence from multiple sources. He has held visiting appointments in Bayesian groups in Australia and the United States. He contributes to the statistical societies in the UK and Ireland and is currently a member of the Council of the Royal Statistical Society. He is a Statistical Editor for the Cochrane Collaboration.

Email: Cathal.Walsh@tcd.ie

